

$K^*(892)$

$I(J^P) = \frac{1}{2}(1^-)$

$K^*(892)$ MASS

CHARGED ONLY, HADROPRODUCED

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
891.66 \pm 0.26 OUR AVERAGE					
892.6 \pm 0.5	5840	BAUBILLIER	84B	HBC	-
888 \pm 3		NAPIER	84	SPEC	+
891 \pm 1		NAPIER	84	SPEC	-
891.7 \pm 2.1	3700	BARTH	83	HBC	+
891 \pm 1	4100	TOAFF	81	HBC	-
892.8 \pm 1.6		AJINENKO	80	HBC	+
890.7 \pm 0.9	1800	AGUILAR...	78B	HBC	\pm
886.6 \pm 2.4	1225	BALAND	78	HBC	\pm
891.7 \pm 0.6	6706	COOPER	78	HBC	\pm
891.9 \pm 0.7	9000	¹ PALER	75	HBC	-
892.2 \pm 1.5	4404	AGUILAR...	71B	HBC	-
891 \pm 2	1000	CRENNELL	69D	DBC	-
890 \pm 3.0	720	BARLOW	67	HBC	\pm
889 \pm 3.0	600	BARLOW	67	HBC	\pm
891 \pm 2.3	620	² DEBAERE	67B	HBC	+
891.0 \pm 1.2	1700	³ WOJCICKI	64	HBC	-
• • • We do not use the following data for averages, fits, limits, etc. • • •					
895.6 \pm 0.8	4K	⁴ LEES	17C	BABR	$J/\psi \rightarrow K_S^0 K^\pm \pi^\mp$
893.2 \pm 0.1 \pm 1.0	190k	⁵ AAIJ	16N	LHCb	$D^0 \rightarrow K_S^0 K^\pm \pi^\mp$
893.5 \pm 1.1	27k	⁶ ABELE	99D	CBAR	\pm $0.0 \bar{p} p \rightarrow K^+ K^- \pi^0$
890.4 \pm 0.2 \pm 0.5	80k	⁷ BIRD	89	LASS	- $11 K^- p \rightarrow \bar{K}^0 \pi^- p$
890.0 \pm 2.3	800	^{2,3} CLELAND	82	SPEC	+
896.0 \pm 1.1	3200	^{2,3} CLELAND	82	SPEC	+
893 \pm 1	3600	^{2,3} CLELAND	82	SPEC	-
896.0 \pm 1.9	380	DELFOSS	81	SPEC	+
886.0 \pm 2.3	187	DELFOSS	81	SPEC	-
894.2 \pm 2.0	765	² CLARK	73	HBC	-
894.3 \pm 1.5	1150	^{2,3} CLARK	73	HBC	-
892.0 \pm 2.6	341	² SCHWEING...	68	HBC	-

¹ Inclusive reaction. Complicated background and phase-space effects.

² Mass errors enlarged by us to Γ/\sqrt{N} . See note.

³ Number of events in peak reevaluated by us.

⁴ From a Dalitz plot analysis in an isobar model with charged and neutral $K^*(892)$ masses and widths floating.

⁵ Average of fit results with different parametrizations for the $K\pi$ S-wave.

⁶ K-matrix pole.

⁷ From a partial wave amplitude analysis.

CHARGED ONLY, PRODUCED IN τ LEPTON DECAYS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
895.47 ± 0.20 ± 0.74	53k	1 EPIFANOV	07	BELL $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
892.0 ± 0.5		2 BOITO	10	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
892.0 ± 0.9		3,4 BOITO	09	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
895.3 ± 0.2		4,5 JAMIN	08	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
896.4 ± 0.9	12k	6 BONVICINI	02	CLEO $\tau^- \rightarrow K^- \pi^0 \nu_\tau$
895 ± 2		7 BARATE	99R	ALEP $\tau^- \rightarrow K^- \pi^0 \nu_\tau$

¹ From a fit in the $K_0^*(700) + K^*(892) + K^*(1410)$ model.

² From the pole position of the $K\pi$ vector form factor using EPIFANOV 07 and constraints from K_{l3} decays in ANTONELLI 10.

³ From the pole position of the $K\pi$ vector form factor in the complex s -plane and using EPIFANOV 07 data.

⁴ Systematic uncertainties not estimated.

⁵ Reanalysis of EPIFANOV 07 using resonance chiral theory.

⁶ Calculated by us from the shift by 4.7 ± 0.9 MeV (statistical uncertainty only) reported in BONVICINI 02 with respect to the world average value from PDG 00.

⁷ With mass and width of the $K^*(1410)$ fixed at 1412 MeV and 227 MeV, respectively.

NEUTRAL ONLY

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
895.55 ± 0.20 OUR AVERAGE		Error includes scale factor of 1.7. See the ideogram below.		
894.68 $\pm 0.25 \pm 0.05$		1 ABLIKIM	16F	BES3 $D^+ \rightarrow K^- \pi^+ e^+ \nu_e$
895.4 $\pm 0.2 \pm 0.2$	243k	2 DEL-AMO-SA...	11I	BABR $D^+ \rightarrow K^- \pi^+ e^+ \nu_e$
895.7 $\pm 0.2 \pm 0.3$	141k	3 BONVICINI	08A	CLEO $D^+ \rightarrow K^- \pi^+ \pi^+$
895.41 $\pm 0.32^{+0.35}_{-0.43}$	18k	4 LINK	05I	FOCS $D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$
896 ± 2		BARBERIS	98E	OMEG $450 \text{ pp} \rightarrow p_f p_s K^* \bar{K}^*$
895.9 $\pm 0.5 \pm 0.2$		ASTON	88	LASS $11 K^- p \rightarrow K^- \pi^+ n$
894.52 ± 0.63	25k	5 ATKINSON	86	OMEG 20-70 γp
894.63 ± 0.76	20k	5 ATKINSON	86	OMEG 20-70 γp
897 ± 1	28k	EVANGELIS...	80	OMEG $10 \pi^- p \rightarrow K^+ \pi^- (\Lambda, \Sigma)$
898.4 ± 1.4	1180	AGUILAR-...	78B	HBC $0.76 \bar{p} p \rightarrow K^\pm K_S^0 \pi^\pm$
894.9 ± 1.6		WICKLUND	78	ASPK $3,4,6 K^\pm N \rightarrow (K\pi)^0 N$
897.6 ± 0.9		BOWLER	77	DBC $5.4 K^+ d \rightarrow K^+ \pi^- p p$
895.5 ± 1.0	3600	MCCUBBIN	75	HBC $3.6 K^- p \rightarrow K^- \pi^+ n$
897.1 ± 0.7	22k	5 PALER	75	HBC $14.3 K^- p \rightarrow (K\pi)^0 X$
896.0 ± 0.6	10k	FOX	74	RVUE $2 K^- p \rightarrow K^- \pi^+ n$
896.0 ± 0.6		FOX	74	RVUE $2 K^+ n \rightarrow K^+ \pi^- p$
896 ± 2		6 MATISON	74	HBC $12 K^+ p \rightarrow K^+ \pi^- \Delta$
896 ± 1	3186	LEWIS	73	HBC $2.1-2.7 K^+ p \rightarrow K\pi\pi p$
894.0 ± 1.3		6 LINGLIN	73	HBC $2-13 K^+ p \rightarrow K^+ \pi^- \pi^+ p$
898.4 ± 1.3	1700	7 BUCHNER	72	DBC $4.6 K^+ n \rightarrow K^+ \pi^- p$
897.9 ± 1.1	2934	7 AGUILAR-...	71B	HBC $3,9,4.6 K^- p \rightarrow K^- \pi^+ n$
898.0 ± 0.7	5362	7 AGUILAR-...	71B	HBC $3,9,4.6 K^- p \rightarrow K^- \pi^+ \pi^- p$
895 ± 1	4300	8 HABER	70	DBC $3 K^- N \rightarrow K^- \pi^+ X$
893.7 ± 2.0	10k	DAVIS	69	HBC $12 K^+ p \rightarrow K^+ \pi^- \pi^+ p$
894.7 ± 1.4	1040	7 DAUBER	67B	HBC $2.0 K^- p \rightarrow K^- \pi^+ \pi^- p$

• • • We do not use the following data for averages, fits, limits, etc. • • •

898.1 ± 1.0	4K	⁹ LEES	17C BABR	$J/\psi \rightarrow K_S^0 K^\pm \pi^\mp$
895.53 ± 0.17		LEES	13F BABR	$D^+ \rightarrow K^+ K^- \pi^+$
894.9 ± 0.5 ± 0.7	14.4k	¹⁰ MITCHELL	09A CLEO	$D_s^+ \rightarrow K^+ K^- \pi^+$
896.2 ± 0.3	20k	¹¹ AUBERT	07AK BABR	$10.6 e^+ e^- \rightarrow K^{*0} K^\pm \pi^\mp \gamma$
900.7 ± 1.1	5900	BARTH	83 HBC	$70 K^+ p \rightarrow K^+ \pi^- X$

¹ Taking also into account the $K_0^*(1430)^0$ and $K_2^*(1430)^0$.

² Taking into account the $K^*(892)^0$, S-wave and P-wave ($K^*(1410)^0$).

³ From the isobar model with a complex pole for the κ .

⁴ Fit to $K\pi$ mass spectrum includes a non-resonant scalar component.

⁵ Inclusive reaction. Complicated background and phase-space effects.

⁶ From pole extrapolation.

⁷ Mass errors enlarged by us to Γ/\sqrt{N} . See note.

⁸ Number of events in peak reevaluated by us.

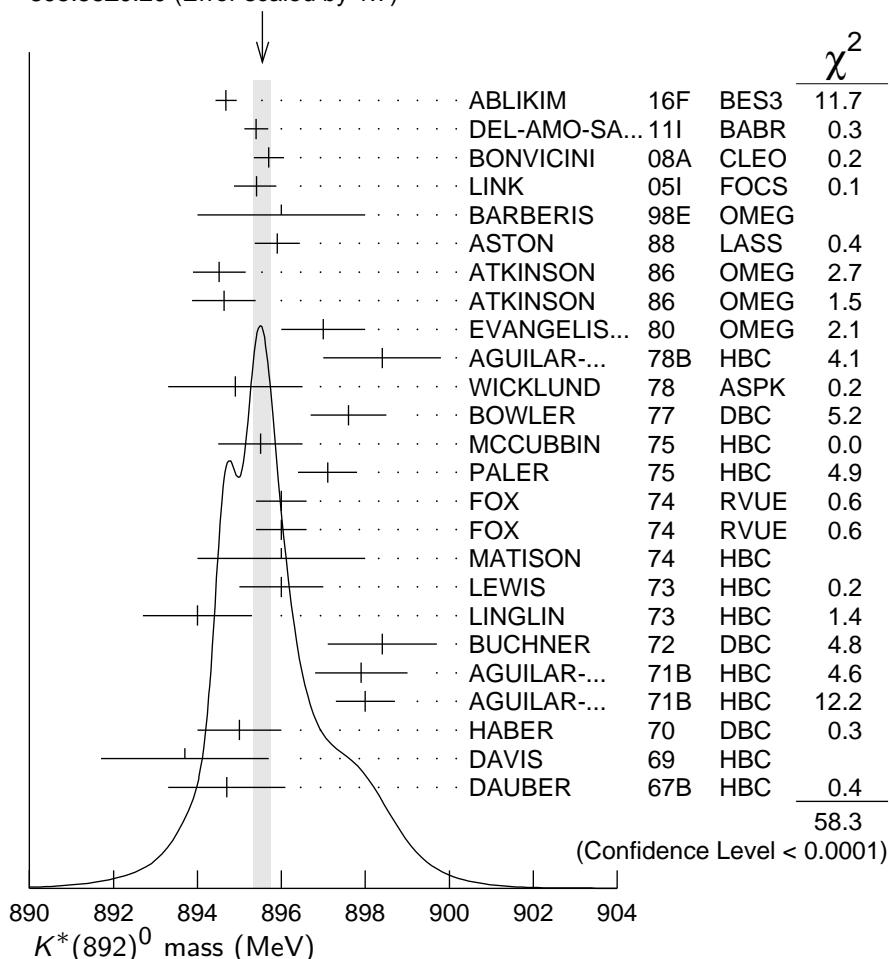
⁹ From a Dalitz plot analysis in an isobar model with charged and neutral $K^*(892)$ masses and widths floating.

¹⁰ This value comes from a fit with χ^2 of 178/117.

¹¹ Systematic uncertainties not estimated.

WEIGHTED AVERAGE

895.55 ± 0.20 (Error scaled by 1.7)



$K^*(892)$ MASSES AND MASS DIFFERENCES

Unrealistically small errors have been reported by some experiments. We use simple “realistic” tests for the minimum errors on the determination of a mass and width from a sample of N events:

$$\delta_{\min}(m) = \frac{\Gamma}{\sqrt{N}}, \quad \delta_{\min}(\Gamma) = 4 \frac{\Gamma}{\sqrt{N}}. \quad (1)$$

We consistently increase unrealistic errors before averaging. For a detailed discussion, see the 1971 edition of this Note.

$m_{K^*(892)^0} - m_{K^*(892)^{\pm}}$

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
6.7 ± 1.2 OUR AVERAGE					
7.7 \pm 1.7	2980	AGUILAR-...	78B	HBC	± 0 $0.76 \bar{p}p \rightarrow K^{\mp} K_S^0 \pi^{\pm}$
5.7 \pm 1.7	7338	AGUILAR-...	71B	HBC	-0 $3.9, 4.6 K^- p$
6.3 \pm 4.1	283	¹ BARASH	67B	HBC	$0.0 \bar{p}p$

¹ Number of events in peak reevaluated by us.

$K^*(892)$ RANGE PARAMETER

All from partial wave amplitude analyses.

VALUE (GeV $^{-1}$)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
2.1 \pm 0.5 \pm 0.5	243k	¹ DEL-AMO-SA.11I	BABR	0	$D^+ \rightarrow K^- \pi^+ e^+ \nu_e$
3.96 \pm 0.54 $^{+1.31}_{-0.90}$	18k	² LINK	05I	FOCS	$D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$
3.4 \pm 0.7		ASTON	88	LASS	$0 \quad 11 K^- p \rightarrow K^- \pi^+ n$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$					
12.1 \pm 3.2 \pm 3.0		BIRD	89	LASS	$- \quad 11 K^- p \rightarrow \bar{K}^0 \pi^- p$

¹ Taking into account the $K^*(892)^0$, S -wave and P -wave ($K^*(1410)^0$).

² Fit to $K\pi$ mass spectrum includes a non-resonant scalar component.

$K^*(892)$ WIDTH

CHARGED ONLY, HADROPRODUCED

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
50.8 ± 0.9 OUR FIT					
50.8 ± 0.9 OUR AVERAGE					
49 \pm 2	5840	BAUBILLIER	84B	HBC	$- \quad 8.25 K^- p \rightarrow \bar{K}^0 \pi^- p$
56 \pm 4		NAPIER	84	SPEC	$- \quad 200 \pi^- p \rightarrow 2K_S^0 X$
51 \pm 2	4100	TOAFF	81	HBC	$- \quad 6.5 K^- p \rightarrow \bar{K}^0 \pi^- p$
50.5 \pm 5.6		AJINENKO	80	HBC	$+ \quad 32 K^+ p \rightarrow K^0 \pi^+ X$
45.8 \pm 3.6	1800	AGUILAR-...	78B	HBC	$\pm \quad 0.76 \bar{p}p \rightarrow K^{\mp} K_S^0 \pi^{\pm}$

52.0±2.5	6706	¹ COOPER	78	HBC	±	0.76 $\bar{p}p \rightarrow (K\pi)^\pm X$
52.1±2.2	9000	² PALER	75	HBC	—	14.3 $K^- p \rightarrow (K\pi)^- X$
46.3±6.7	765	¹ CLARK	73	HBC	—	3.13 $K^- p \rightarrow \bar{K}^0 \pi^- p$
48.2±5.7	1150	^{1,3} CLARK	73	HBC	—	3.3 $K^- p \rightarrow \bar{K}^0 \pi^- p$
54.3±3.3	4404	¹ AGUILAR-...	71B	HBC	—	3.9, 4.6 $K^- p \rightarrow (K\pi)^- p$
46 ± 5	1700	^{1,3} WOJCICKI	64	HBC	—	1.7 $K^- p \rightarrow \bar{K}^0 \pi^- p$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
43.6±1.3	4K	⁴ LEES	17C	BABR	<i>J/ψ → K_S⁰ K[±] π[∓]</i>	
47.2±0.3±2.3	190k	⁵ AAIJ	16N	LHCb	<i>D⁰ → K_S⁰ K[±] π[∓]</i>	
54.8±1.7	27k	⁶ ABELE	99D	CBAR	±	0.0 $\bar{p}p \rightarrow K^+ K^- \pi^0$
45.2±1 ± 2	80k	⁷ BIRD	89	LASS	—	11 $K^- p \rightarrow \bar{K}^0 \pi^- p$
42.8±7.1	3700	BARTH	83	HBC	+	70 $K^+ p \rightarrow K^0 \pi^+ X$
64.0±9.2	800	^{1,3} CLELAND	82	SPEC	+	30 $K^+ p \rightarrow K_S^0 \pi^+ p$
62.0±4.4	3200	^{1,3} CLELAND	82	SPEC	+	50 $K^+ p \rightarrow K_S^0 \pi^+ p$
55 ± 4	3600	^{1,3} CLELAND	82	SPEC	—	50 $K^+ p \rightarrow K_S^0 \pi^- p$
62.6±3.8	380	DELFOSSE	81	SPEC	+	50 $K^\pm p \rightarrow K^\pm \pi^0 p$
50.5±3.9	187	DELFOSSE	81	SPEC	—	50 $K^\pm p \rightarrow K^\pm \pi^0 p$

¹ Width errors enlarged by us to $4 \times \Gamma/\sqrt{N}$; see note.

² Inclusive reaction. Complicated background and phase-space effects.

³ Number of events in peak reevaluated by us.

⁴ From a Dalitz plot analysis in an isobar model with charged and neutral $K^*(892)$ masses and widths floating.

⁵ Average of fit results with different parametrizations for the $K\pi$ S -wave.

⁶ K -matrix pole.

⁷ From a partial wave amplitude analysis.

CHARGED ONLY, PRODUCED IN τ LEPTON DECAYS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
46.2±0.6±1.2	53k	¹ EPIFANOV	07	BELL $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
46.5±1.1		² BOITO	10	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
46.2±0.4		^{3,4} BOITO	09	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
47.5±0.4		^{4,5} JAMIN	08	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
55 ± 8		⁶ BARATE	99R	ALEP $\tau^- \rightarrow K^- \pi^0 \nu_\tau$

¹ From a fit in the $K_0^*(700) + K^*(892) + K^*(1410)$ model.

² From the pole position of the $K\pi$ vector form factor using EPIFANOV 07 and constraints from K_{13} decays in ANTONELLI 10.

³ From the pole position of the $K\pi$ vector form factor in the complex s -plane and using EPIFANOV 07 data.

⁴ Systematic uncertainties not estimated.

⁵ Reanalysis of EPIFANOV 07 using resonance chiral theory.

⁶ With mass and width of the $K^*(1410)$ fixed at 1412 MeV and 227 MeV, respectively.

NEUTRAL ONLY

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
47.3 ±0.5 OUR FIT		Error includes scale factor of 1.9.		
47.3 ±0.5 OUR AVERAGE		Error includes scale factor of 2.0. See the ideogram below.		
46.53±0.56±0.31	1 ABLIKIM	16F BES3	$D^+ \rightarrow K^- \pi^+ e^+ \nu_e$	
46.5 ±0.3 ±0.2	243k DEL-AMO-SA...11I	BABR	$D^+ \rightarrow K^- \pi^+ e^+ \nu_e$	
45.3 ±0.5 ±0.6	141k BONVICINI	08A CLEO	$D^+ \rightarrow K^- \pi^+ \pi^+$	
47.79±0.86 ^{+1.32} _{-1.06}	18k LINK	05I FOCS	$D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$	
54 ±3	BARBERIS	98E OMEG	$450 \text{ pp} \rightarrow p_f p_s K^* \bar{K}^*$	
50.8 ±0.8 ±0.9	ASTON	88 LASS	$11 K^- p \rightarrow K^- \pi^+ n$	
46.5 ±4.3	5900 BARTH	83 HBC	$70 K^+ p \rightarrow K^+ \pi^- X$	
54 ±2	28k EVANGELIS...	80 OMEG	$10 \pi^- p \rightarrow K^+ \pi^- (\Lambda, \Sigma)$	
45.9 ±4.8	1180 AGUILAR-...	78B HBC	$0.76 \bar{p} p \rightarrow K^\mp K_S^0 \pi^\pm$	
51.2 ±1.7	WICKLUND	78 ASPK	$3,4,6 K^\pm N \rightarrow (K\pi)^0 N$	
48.9 ±2.5	BOWLER	77 DBC	$5.4 K^+ d \rightarrow K^+ \pi^- pp$	
48 ⁺³ ₋₂	3600 MCCUBBIN	75 HBC	$3.6 K^- p \rightarrow K^- \pi^+ n$	
50.6 ±2.5	22k PALER	75 HBC	$14.3 K^- p \rightarrow (K\pi)^0 X$	
47 ±2	10k FOX	74 RVUE	$2 K^- p \rightarrow K^- \pi^+ n$	
51 ±2	FOX	74 RVUE	$2 K^+ n \rightarrow K^+ \pi^- p$	
46.0 ±3.3	3186 LEWIS	73 HBC	$2.1-2.7 K^+ p \rightarrow K\pi\pi p$	
51.4 ±5.0	1700 BUCHNER	72 DBC	$4.6 K^+ n \rightarrow K^+ \pi^- p$	
55.8 ^{+4.2} _{-3.4}	2934 AGUILAR-...	71B HBC	$3.9,4.6 K^- p \rightarrow K^- \pi^+ n$	
48.5 ±2.7	5362 AGUILAR-...	71B HBC	$3.9,4.6 K^- p \rightarrow K^- \pi^+ \pi^- p$	
54.0 ±3.3	4300 HABER ^{6,7}	70 DBC	$3 K^- N \rightarrow K^- \pi^+ X$	
53.2 ±2.1	10k DAVIS ⁶	69 HBC	$12 K^+ p \rightarrow K^+ \pi^- \pi^+ p$	
44 ±5.5	1040 DAUBER ⁶	67B HBC	$2.0 K^- p \rightarrow K^- \pi^+ \pi^- p$	
• • • We do not use the following data for averages, fits, limits, etc. • • •				
52.6 ±1.7	4K LEES ⁸	17C BABR	$J/\psi \rightarrow K_S^0 K^\pm \pi^\mp$	
44.90±0.30	LEES	13F BABR	$D^+ \rightarrow K^+ K^- \pi^+$	
45.7 ±1.1 ±0.5	14.4k MITCHELL ⁹	09A CLEO	$D_s^+ \rightarrow K^+ K^- \pi^+$	
50.6 ±0.9	20k AUBERT ¹⁰	07AK BABR	$10.6 e^+ e^- \rightarrow K^{*0} K^\pm \pi^\mp \gamma$	

¹ Taking also into account the $K_0^*(1430)^0$ and $K_2^*(1430)^0$.

² Taking into account the $K^*(892)^0$, S -wave and P -wave ($K^*(1410)^0$).

³ From the isobar model with a complex pole for the κ .

⁴ Fit to $K\pi$ mass spectrum includes a non-resonant scalar component.

⁵ Inclusive reaction. Complicated background and phase-space effects.

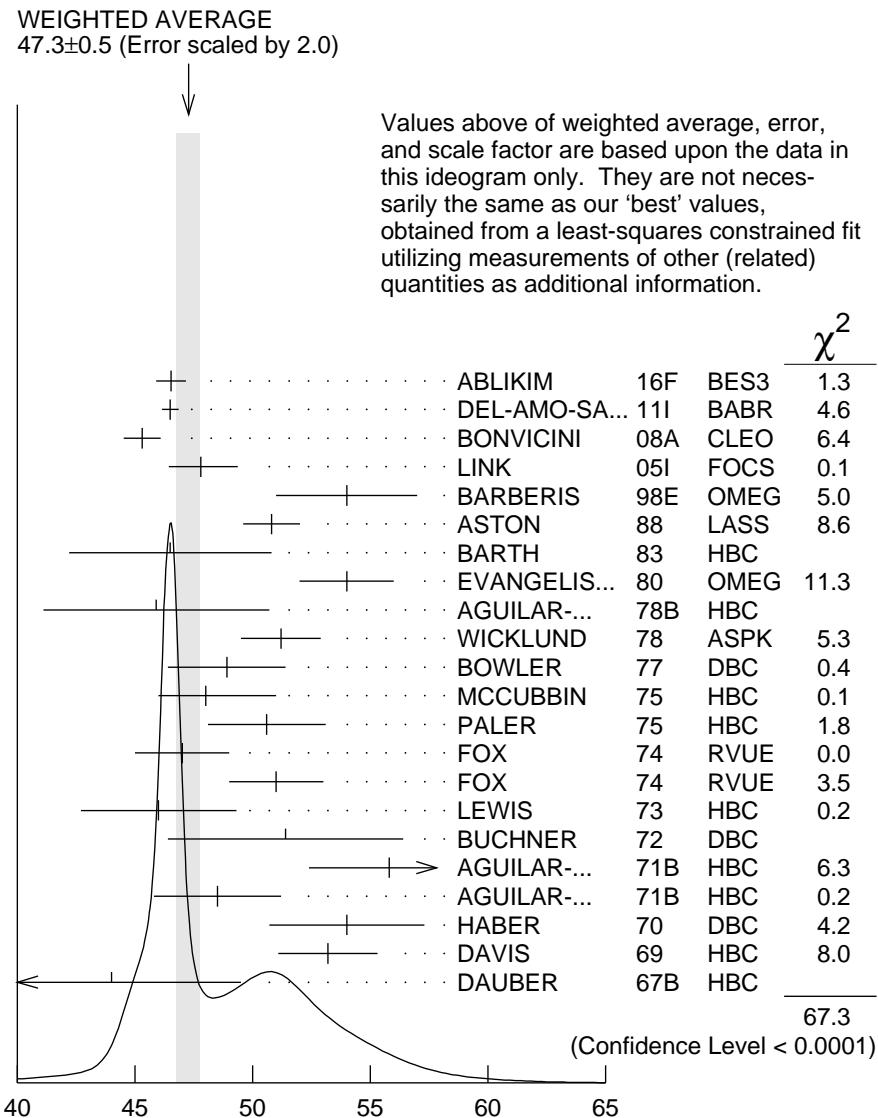
⁶ Width errors enlarged by us to $4 \times \Gamma/\sqrt{N}$; see note.

⁷ Number of events in peak reevaluated by us.

⁸ From a Dalitz plot analysis in an isobar model with charged and neutral $K^*(892)$ masses and widths floating.

⁹ This value comes from a fit with χ^2 of 178/117.

¹⁰ Systematic uncertainties not estimated.



NEUTRAL ONLY (MeV)

K*(892) DECAY MODES

Mode	Fraction (Γ_i/Γ)	Confidence level
$\Gamma_1 \quad K\pi$	~ 100	%
$\Gamma_2 \quad (K\pi)^{\pm}$	(99.901 ± 0.009)	%
$\Gamma_3 \quad (K\pi)^0$	(99.754 ± 0.021)	%
$\Gamma_4 \quad K^0\gamma$	(2.46 ± 0.21) × 10 ⁻³	
$\Gamma_5 \quad K^{\pm}\gamma$	(9.9 ± 0.9) × 10 ⁻⁴	
$\Gamma_6 \quad K\pi\pi$	< 7	× 10 ⁻⁴ 95%

CONSTRAINED FIT INFORMATION

An overall fit to the total width and a partial width uses 13 measurements and one constraint to determine 3 parameters. The overall fit has a $\chi^2 = 7.8$ for 11 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\langle \delta p_i \delta p_j \rangle / (\delta p_i \cdot \delta p_j)$, in percent, from the fit to parameters p_i , including the branching fractions, $x_i \equiv \Gamma_i / \Gamma_{\text{total}}$. The fit constrains the x_i whose labels appear in this array to sum to one.

$$\begin{array}{c|cc} x_5 & -100 \\ \hline \Gamma & 19 & -19 \\ & x_2 & x_5 \end{array}$$

	Mode	Rate (MeV)	
Γ_2	$(K\pi)^{\pm}$	50.7 ± 0.9	
Γ_5	$K^{\pm}\gamma$	0.050 ± 0.005	

CONSTRAINED FIT INFORMATION

An overall fit to the total width and a partial width uses 23 measurements and one constraint to determine 3 parameters. The overall fit has a $\chi^2 = 68.4$ for 21 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\langle \delta p_i \delta p_j \rangle / (\delta p_i \cdot \delta p_j)$, in percent, from the fit to parameters p_i , including the branching fractions, $x_i \equiv \Gamma_i / \Gamma_{\text{total}}$. The fit constrains the x_i whose labels appear in this array to sum to one.

$$\begin{array}{c|cc} x_4 & -100 \\ \hline \Gamma & 12 & -12 \\ & x_3 & x_4 \end{array}$$

	Mode	Rate (MeV)	Scale factor
Γ_3	$(K\pi)^0$	47.2 ± 0.5	1.9
Γ_4	$K^0\gamma$	0.117 ± 0.010	

$K^*(892)$ PARTIAL WIDTHS

$\Gamma(K^0\gamma)$	Γ_4
<u>VALUE (keV)</u>	<u>EVTS</u>
116 \pm 10 OUR FIT	
116.5 ± 9.9	584
	CARLSMITH 86 SPEC 0
	$K_L^0 A \rightarrow K_S^0 \pi^0 A$

CHANDLEE	83	PRL 51 168	C. Chandlee <i>et al.</i>	(ROCH, FNAL, MINN)
CLELAND	82	NP B208 189	W.E. Cleland <i>et al.</i>	(DURH, GEVA, LAUS+)
DELFOSSÉ	81	NP B183 349	A. Delfosse <i>et al.</i>	(GEVA, LAUS)
TOAFF	81	PR D23 1500	S. Toaff <i>et al.</i>	(ANL, KANS)
AJINENKO	80	ZPHY C5 177	I.V. Ajinenko <i>et al.</i>	(SERP, BRUX, MONS+)
EVANGELIS...	80	NP B165 383	C. Evangelista <i>et al.</i>	(BARI, BONN, CERN+)
AGUILAR-...	78B	NP B141 101	M. Aguilar-Benitez <i>et al.</i>	(MADR, TATA+)
BALAND	78	NP B140 220	J.F. Baland <i>et al.</i>	(MONS, BELG, CERN+)
COOPER	78	NP B136 365	A.M. Cooper <i>et al.</i>	(TATA, CERN, CDEF+)
JONGEJANS	78	NP B139 383	B. Jongejans <i>et al.</i>	(ZEEM, CERN, NIJM+)
WICKLUND	78	PR D17 1197	A.B. Wicklund <i>et al.</i>	(ANL)
BOWLER	77	NP B126 31	M.G. Bowler <i>et al.</i>	(OXF)
CARITHERS	75B	PRL 35 349	W.C.J. Carithers <i>et al.</i>	(ROCH, MCGI)
MCCUBBIN	75	NP B86 13	N.A. McCubbin, L. Lyons	(OXF)
PALER	75	NP B96 1	K. Paler <i>et al.</i>	(RHEL, SACL, ÉPOL)
FOX	74	NP B80 403	G.C. Fox, M.L. Griss	(CIT)
MATISON	74	PR D9 1872	M.J. Matison <i>et al.</i>	(LBL)
BEMPORAD	73	NP B51 1	C. Bemporad <i>et al.</i>	(CERN, ETH, LOIC)
CLARK	73	NP B54 432	A.G. Clark, L. Lyons, D. Radojicic	(OXF)
LEWIS	73	NP B60 283	P.H. Lewis <i>et al.</i>	(LOWC, LOIC, CDEF)
LINGLIN	73	NP B55 408	D. Linglin	(CERN)
BUCHNER	72	NP B45 333	K. Buchner <i>et al.</i>	(MPIM, CERN, BRUX)
AGUILAR-...	71B	PR D4 2583	M. Aguilar-Benitez, R.L. Eisner, J.B. Kinson	(BNL)
HABER	70	NP B17 289	B. Haber <i>et al.</i>	(REHO, SACL, BGNA, EPOL)
CRENNELL	69D	PRL 22 487	D.J. Crennell <i>et al.</i>	(BNL)
DAVIS	69	PRL 23 1071	P.J. Davis <i>et al.</i>	(LRL)
SCHWEING...	68	PR 166 1317	F. Schweingruber <i>et al.</i>	(ANL, NWES)
BARASH	67B	PR 156 1399	N. Barash <i>et al.</i>	(COLU)
BARLOW	67	NC 50A 701	J. Barlow <i>et al.</i>	(CERN, CDEF, IRAD, LIVP)
DAUBER	67B	PR 153 1403	P.M. Dauber <i>et al.</i>	(UCLA)
DEBAERE	67B	NC 51A 401	W. de Baere <i>et al.</i>	(BRUX, CERN)
WOJCICKI	64	PR 135 B484	S.G. Wojcicki	(RL)